

NO. 4.

Ammonia is one of the most important elements of plant food, but it is exceedingly volatile; and if the soil is examined when it is first broken for a Spring crop, and the examination is repeated after the field has been exposed to the

heat of the Summer months, it will be found that the ammonia of the soil has diminished one-half or more, under the influence of Summer heat. On the other hand, the soluble salts of potash, soda, lime, &c., will accumulate under influence of dry, hot weather, but if the

drenching rain of Spring are suffered to wash the soil, these soluble salts will proportionately diminish. It will be readily perceived that an accurate analysis of the same soil at different seasons of the year will show very different results. Of the materials which go to

make up the bulk of field crops, so small a proportion is derived from the soil that it renders the process of determining the presence of that little a very delicate one. If 200 pounds of guano be carefully mixed with the soil of an acre of ground, its effect on the crop will be

very sensibly perceived; but of the essential elements of plant food, the guano has melted to the soil only six pounds of potash, twenty-four of phosphoric acid and thirty-four of ammonia. —*Boston Cultivator.*

GAME FOWL.
The game fowl, in my estimation, says a writer in the *New England Farmer*, is the most profitable to keep. I keep no other kind but pit games. They are not as large as some of the other breeds but they are less expensive; being great

foreigners, they require very little to eat outside of what they provide for themselves. They are very healthy, scarcely ever having cholera or any of the diseases so common among poultry. As an egg producer the game hen is without a peer. She will average, when properly cared for, 150 eggs per year.

year. She seldom gets broody, and when she does is easily broken from wanting to sit. She makes an excellent mother, and it is with great difficulty that a crow or cat captures one of her brood. The little chicks grow rapidly, and when fat make as fine a table fare as any of the domestic fowls.

and, when fat, make as good a table as any man desire. I have bred several varieties of poultry, but from experience and observation I prefer games to all others.

FARM AND GARDEN NOTES.
Foul air in stables affects the quality

Most plants will not thrive in a cold wet soil.

Raising ducks is very profitable. The Pekin is the most hardy and easy raised

Warmth is the best of all medicines for rump and swelled heels and eyes. Press the birds by a stove if possible.

Eggs are the cheapest and most satisfactory food the farmer or boarding house keeper can put upon their table.

Make your selection of pullets to raise

Anoint the combs and wattles of the large comb breeds of fowls with glycerine occasionally, and it will prevent frost-bombs.

A good deal is said about thoroughbred stock, and not near as much as might profitably be said about thoroughbred help.

Don't be in a hurry to get the cows on to the pasture; they, both cows and

The day of large profits is gone. The profits of dairying are made up of the small daily savings, in the difference between the cost of production and the value of the milk or butter.

Where Penn Signed the Treaty.
A well-worn spot, kissed, no doubt, by the lips of many ancient tourists is the one on which William Penn made his famous treaty with the Indians, here has been proved to be some fifty or

feet removed from the historic elm beneath which that treaty was really made. The spot is on the lower side of Itasca street, below Palmer, and is now the property of Neale & Levy, the shipbuilders. When they purchased the lot two years ago for the purpose of enlarg-

ing their work, an old resident of the neighborhood stated that the elm stood about fifty or sixty feet from the street. He was laughed at, of course, but his statement has just been verified. In excavating for the new building, Neale & Levy unearthed the tree stump.

at the point indicated, the root of the old elm. It was about eight feet in circumference, and so firmly embedded that the workmen were unable to remove it without laborious effort. Fifty-five feet from the root, on an adjoining lot, stands the weather-worn marble tablet, which says that upon this spot

William Penn made his famous treaty. How the error in locating the tablet was made is not clear, but it has lain there many years and has always been thought to be upon the very spot on which Penn stood.—*Philadelphia Enquirer*.

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org. & 2 vols.; "Hymn and Flood Organ
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